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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,533	02/22/2007	David Dreisinger	1510.011	1354
23405 7590 06/15/2009 HESLIN ROTHENBERG FARLEY & MESITI PC 5 COLUMBIA CIRCLE ALBANY, NY, 12203			EXAMINER	
			BOS, STEVEN J	
ALBANY, NY 12203			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			06/15/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commence	10/578,533	DREISINGER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Steven Bos	1793				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
<i>,</i> —	-					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under L.	x parte quayre, 1955 C.D. 11, 40	0.0.210.				
Disposition of Claims						
4) Claim(s) is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.	nom concideration.					
	6)⊠ Claim(s) <u>1-24</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	r.					
10)⊠ The drawing(s) filed on <u>5-3-2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	• , ,	· ,				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
Certified copies of the priority documents	s have been received in Application	on No				
3. Copies of the certified copies of the prior	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Pa	atent Application				
Paper No(s)/Mail Date 6) Uother:						

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 6, "selected from ... and ... processing" is improper Markush language which renders the claim indefinite.

In claims 7,8, the slash marks are indefinite as to whether they are to mean – and-, -or-, or -and/or-.

In claim 10, "said basic ferric sulphate leaching step" and "the slurry" each lack(s) proper antecedent basis in the claim(s).

In claim 11, "the basic ferric sulphate slurry" lack(s) proper antecedent basis in the claim(s).

In claim 12, "said basic ferric sulphate autoclave slurries" lack(s) proper antecedent basis in the claim(s).

In claim 14, line 3-4, "the pyrites-containing solids" lack(s) proper antecedent basis in the claim(s).

In claim 14,(b), "the pregnant leach solution" lack(s) proper antecedent basis in the claim(s).

In claim 16, line 5, "off" is superfluous which renders the claim indefinite.

In claims 17,21,22, "sufficiently high" is indefinite as to what is considered to be sufficient.

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In claims 19,20, "selected from ... and ... processing" is improper Markush language which renders each claim indefinite.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verbaan '613 in view of Hourn '635 and Collins '776.

Verbaan teaches or at least suggests the instantly claimed process of leaching ores or concentrates of iron containing copper sulfide ore such as chalcocite, with aqueous sulfuric acid containing ferric ions in the form of ferric sulfate which is generated *insitu* at elevated temperature and elevated oxygen pressure, ie. in an autoclave. See col. 4.

Verbaan teaches that the leaching is preferably carried out at elevated T and P which suggests that atmospheric leaching such as that taught by Hourn can also be used. See col. 4 and example 1 of Hourn.

It would have been obvious to one skilled in the art to use the atmospheric leaching of Hourn in the process of Verbaan because this would save energy costs and Verbaan suggests such atmospheric leaching may be used.

Verbaan and Hourn may differ in that the precipitation of basic ferric sulfate is not stated.

Collins teaches a similar leaching process as Verbaan and Hourn and teaches the precipitation of basic ferric sulfate during the process. See cols. 5,6.

It would have been obvious to one skilled in the art to precipitate basic ferric sulfate in the process of Verbaan and Hourn because they use ferric ions in their leaching process and Collins process provides same in the form of basic ferric sulfate.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is 571-272-1350. The examiner can normally be reached on M-F, 9AM to 6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stan Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Steven Bos Primary Examiner Art Unit 1793

sjb

/Steven Bos/

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Primary Examiner, Art Unit 1793

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